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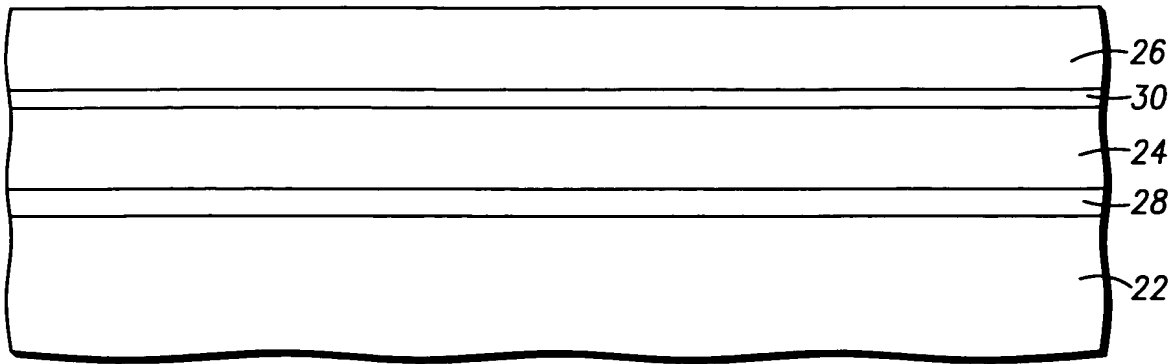


FIG. 1

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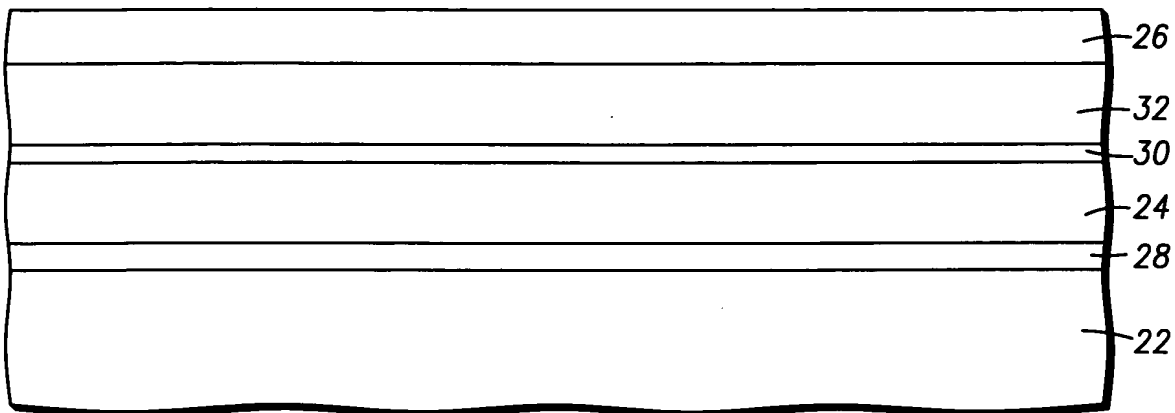


FIG. 2

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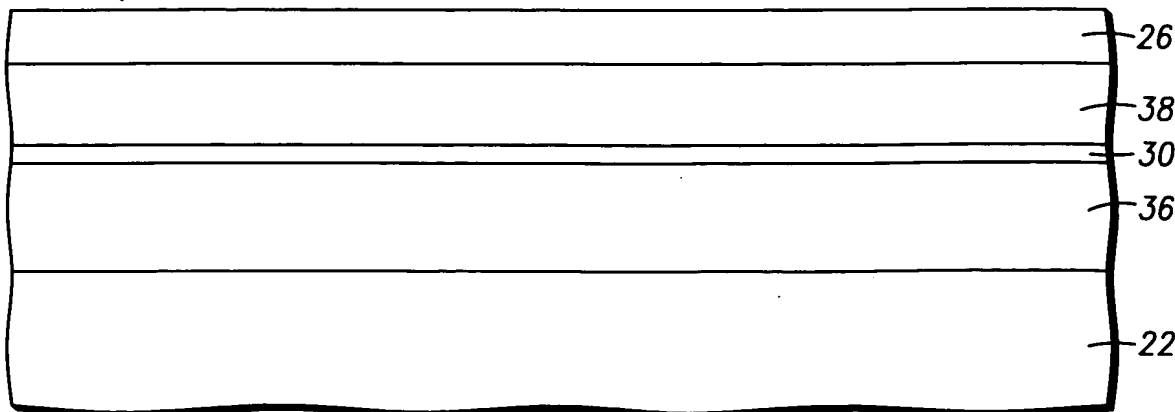


FIG. 3

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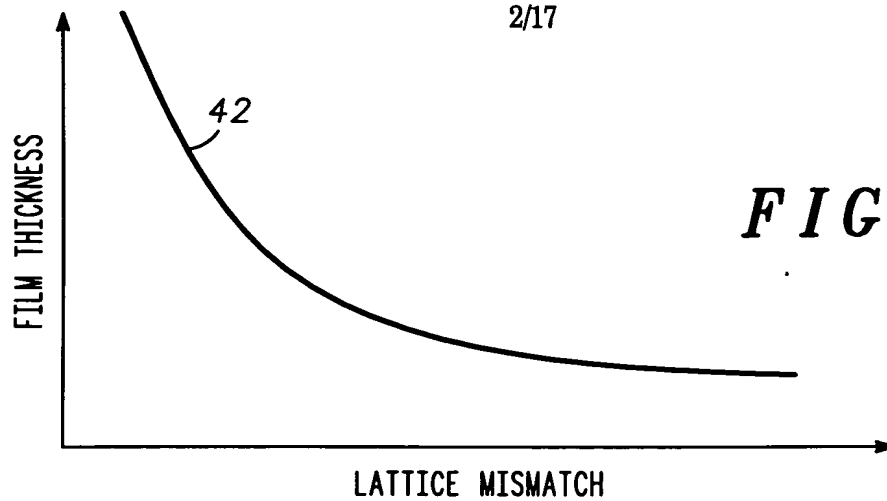


FIG. 4

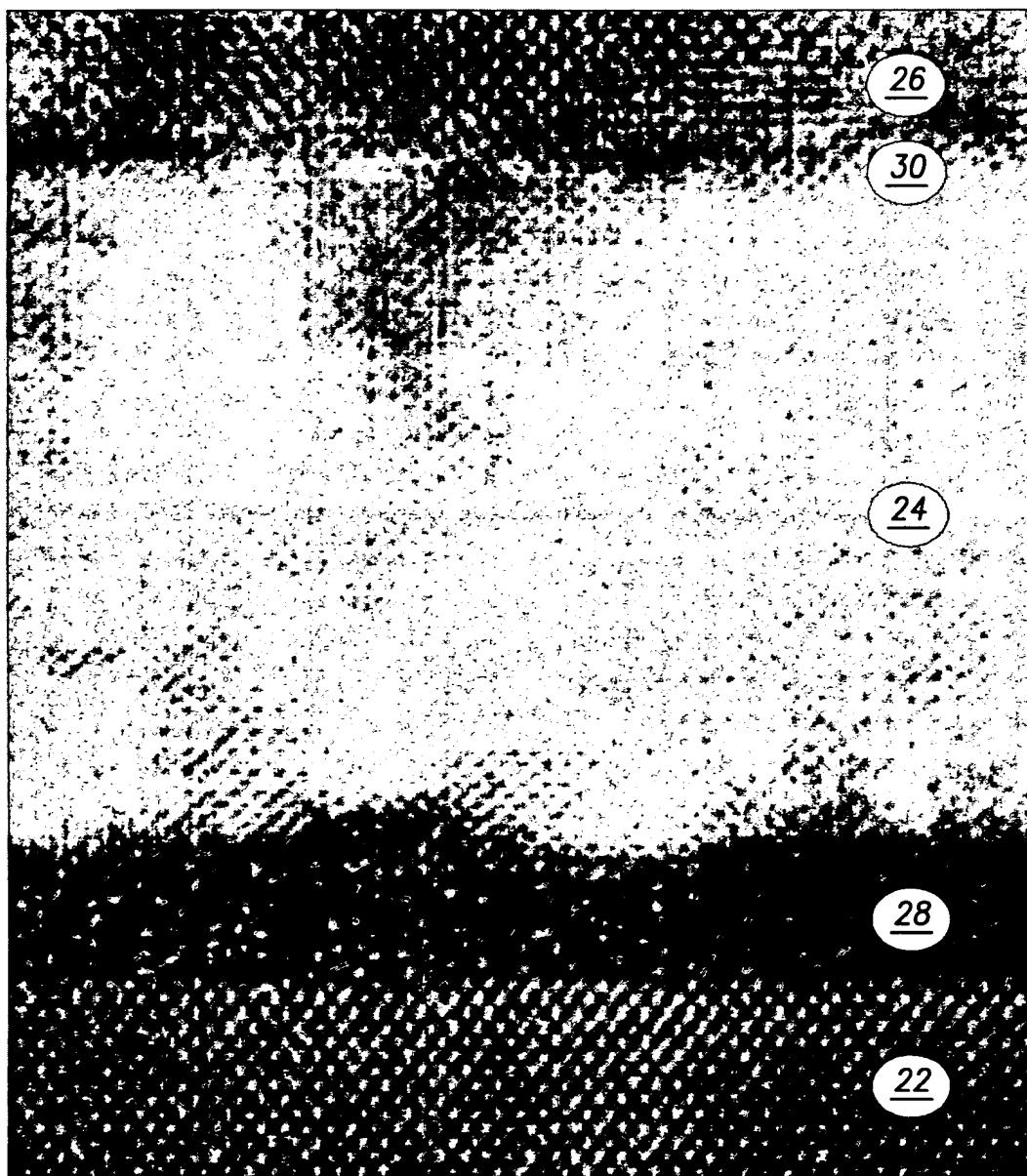


FIG. 5

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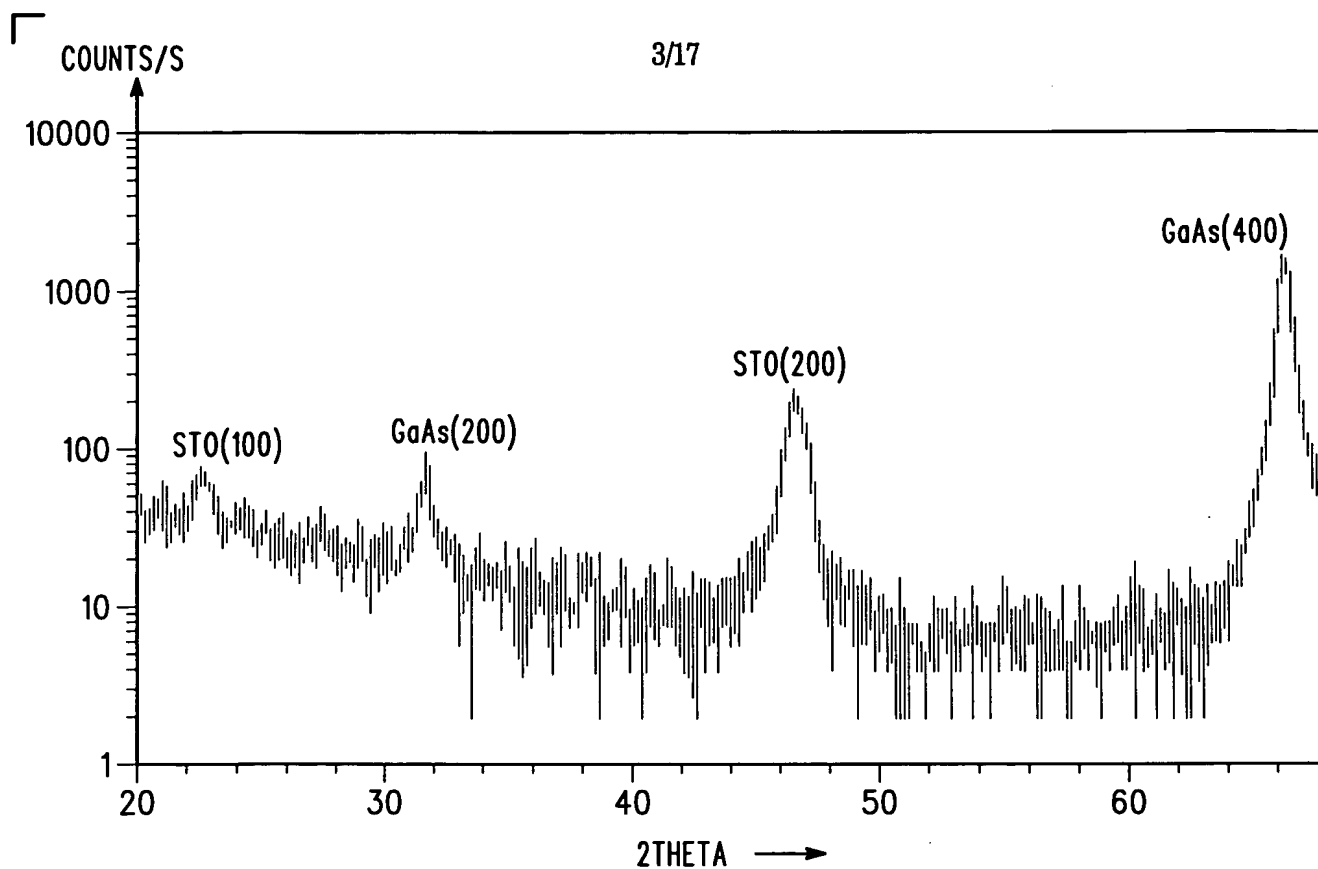


FIG. 6

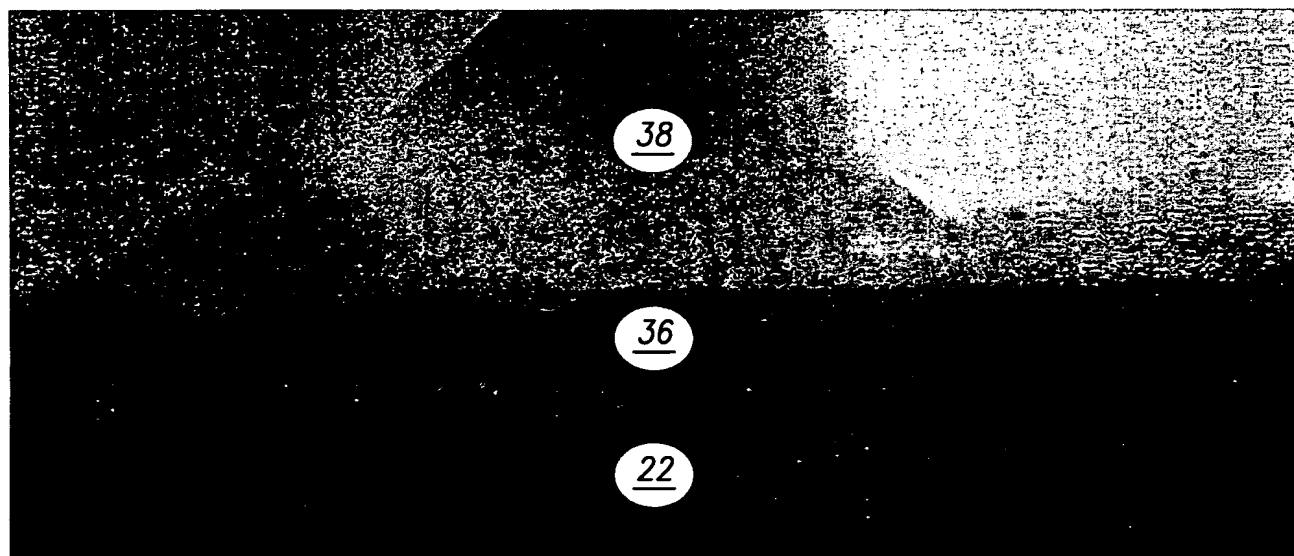


FIG. 7

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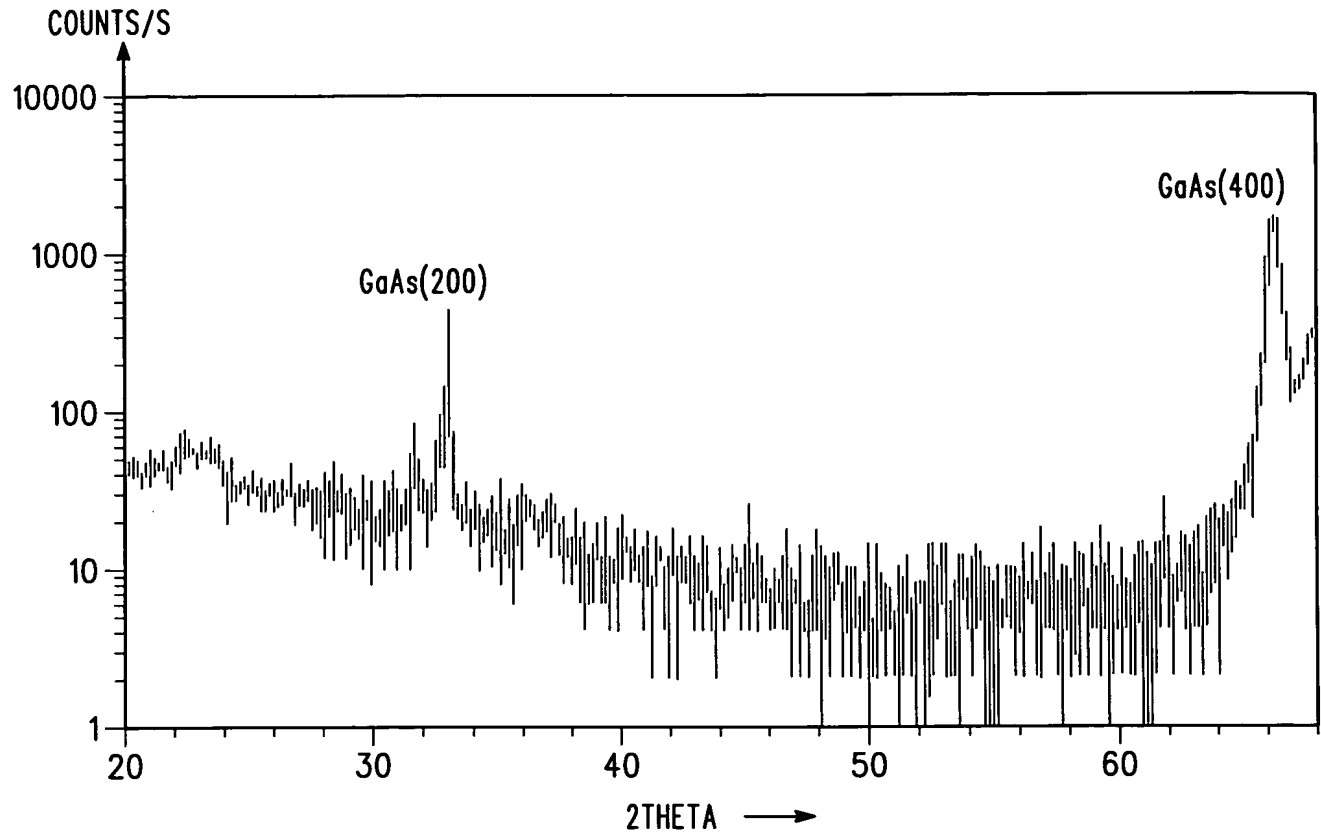


FIG. 8

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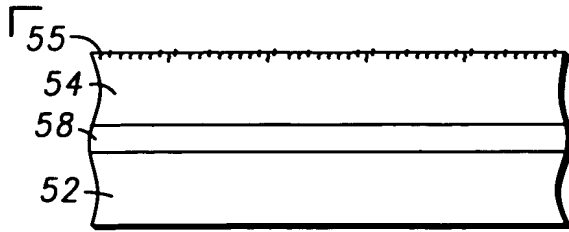


FIG. 9

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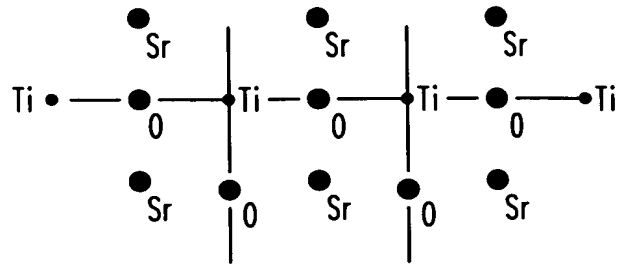


FIG. 13

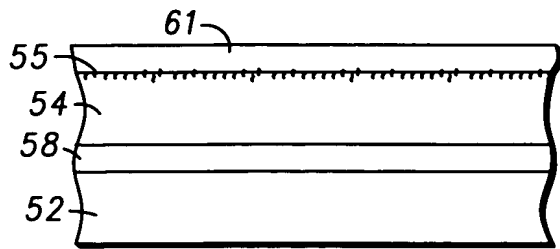


FIG. 10

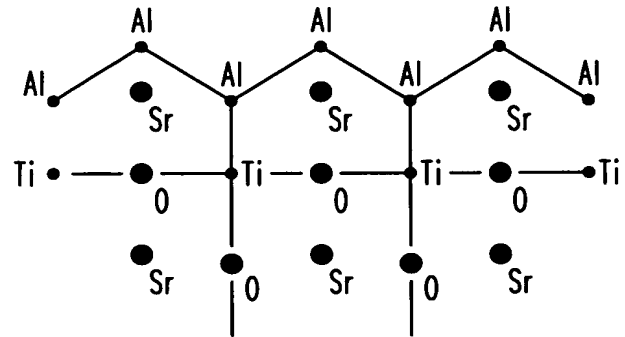


FIG. 14

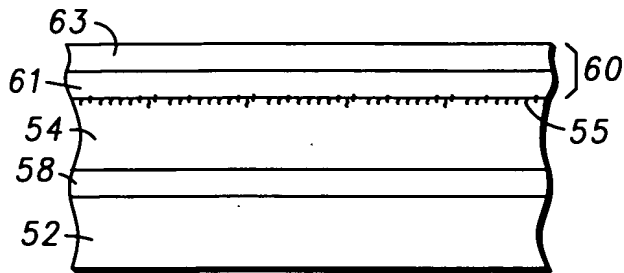


FIG. 11

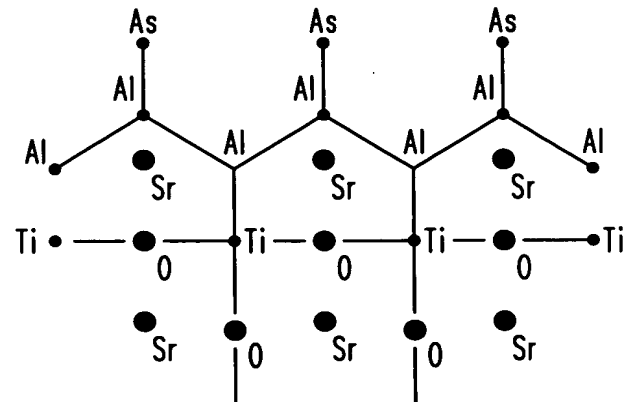


FIG. 15

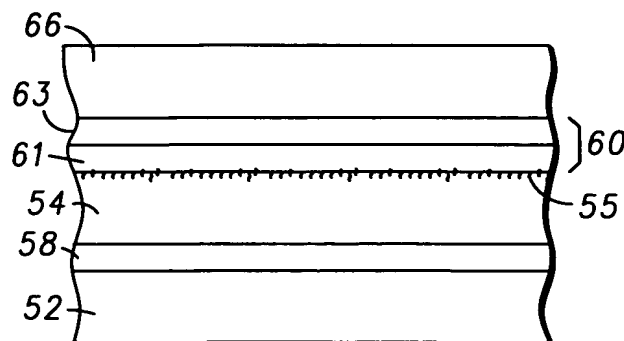


FIG. 12

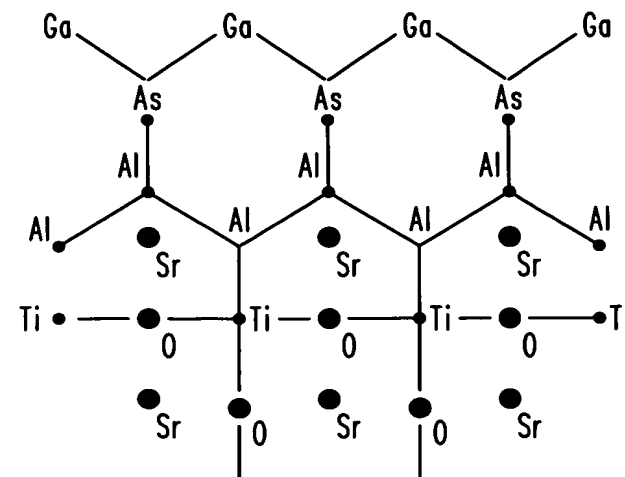


FIG. 16

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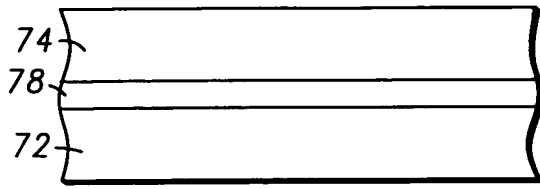


FIG. 17

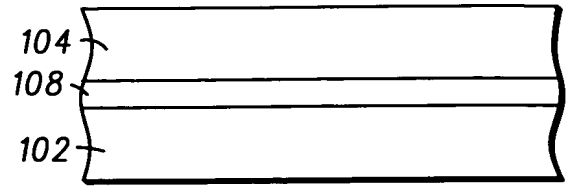


FIG. 21

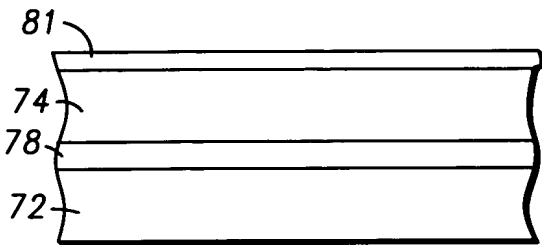


FIG. 18

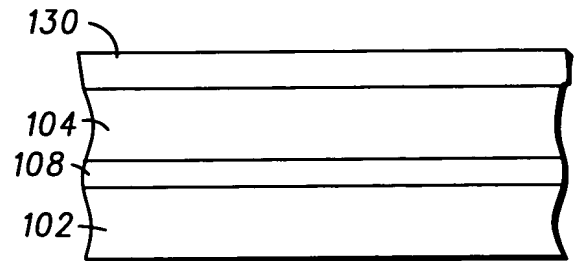


FIG. 22

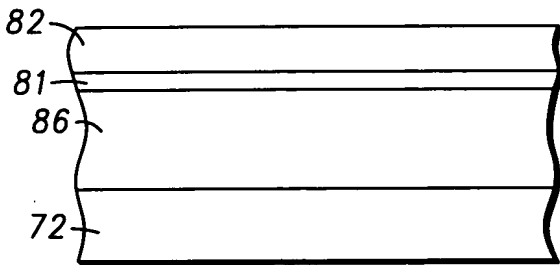


FIG. 19

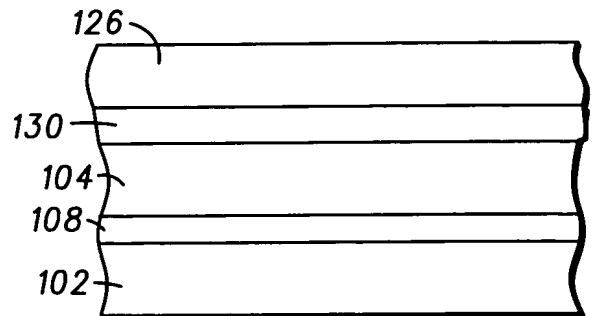


FIG. 23

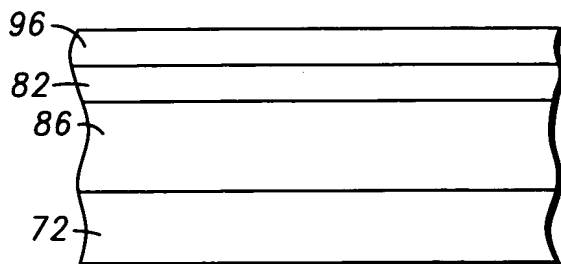


FIG. 20

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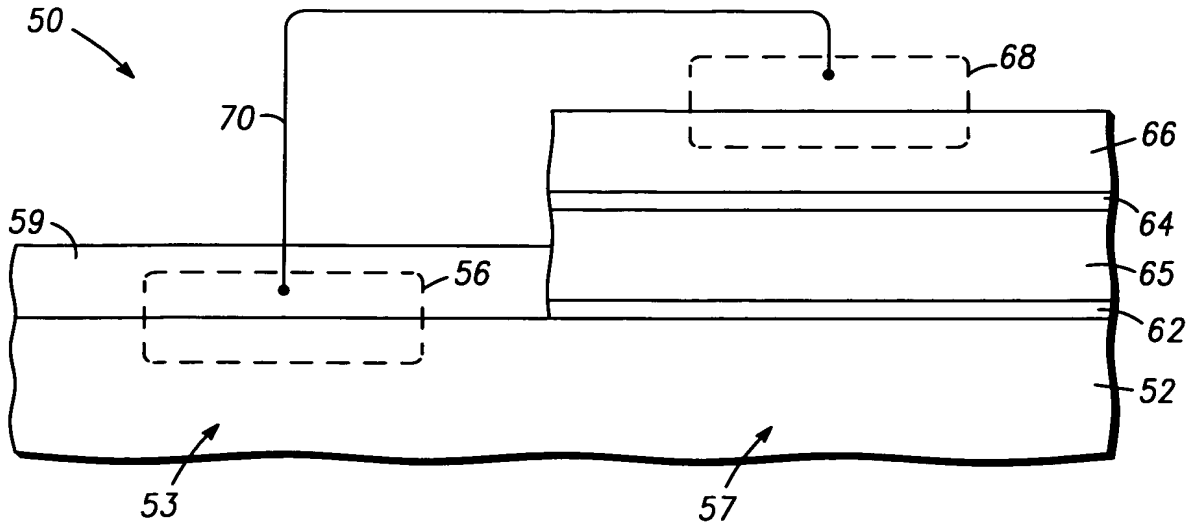


FIG. 24

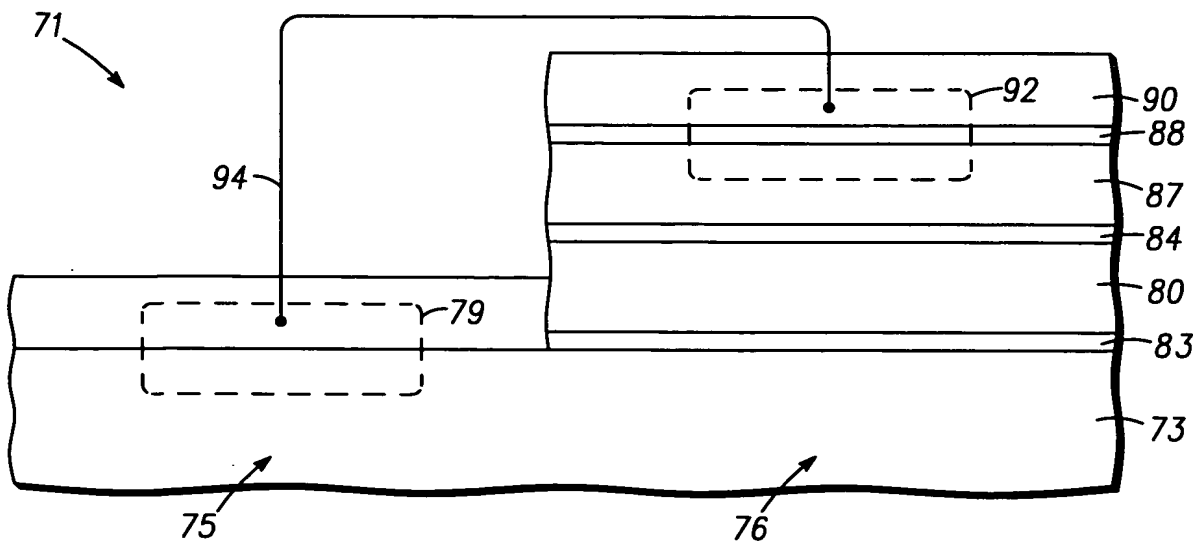
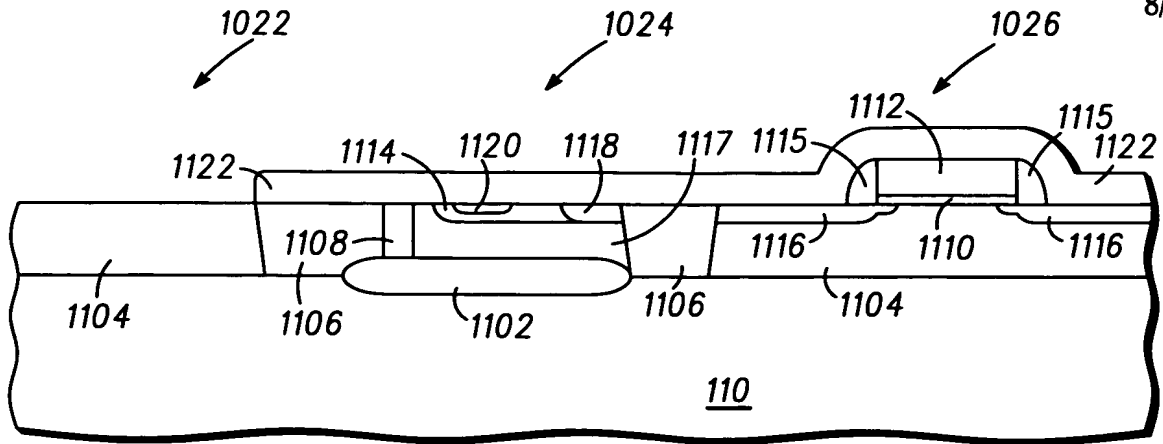
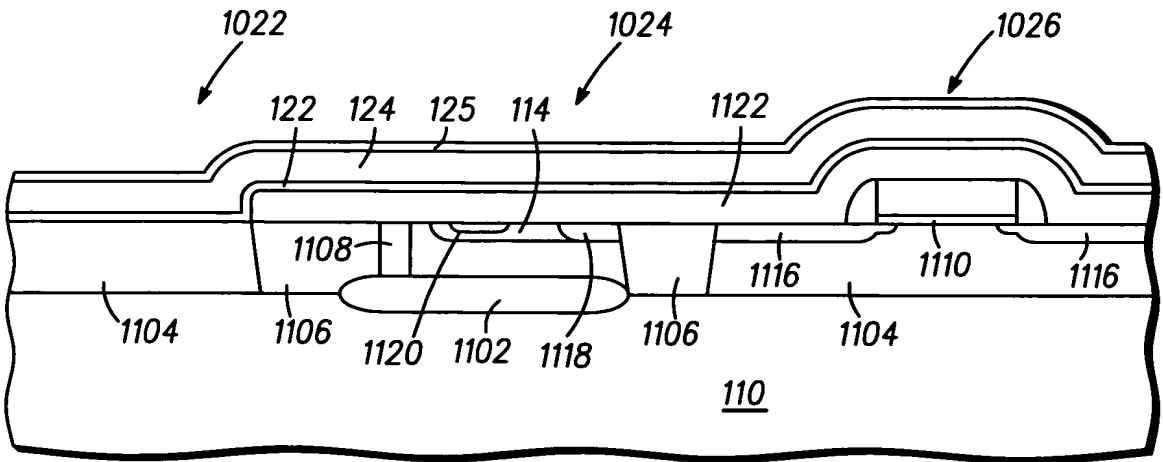


FIG. 25

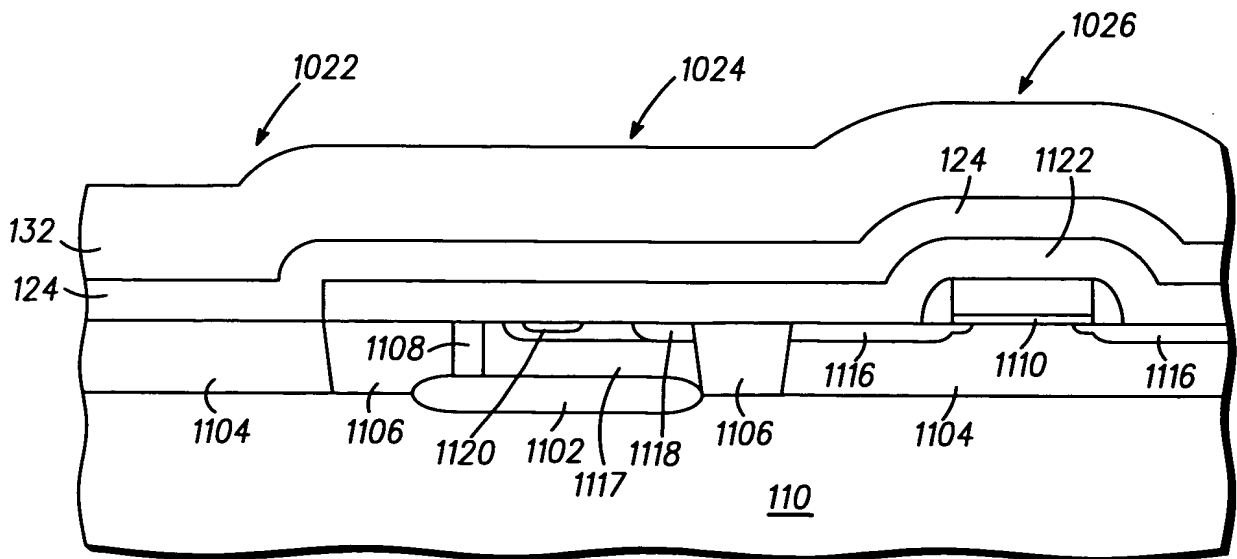
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103 FIG. 26



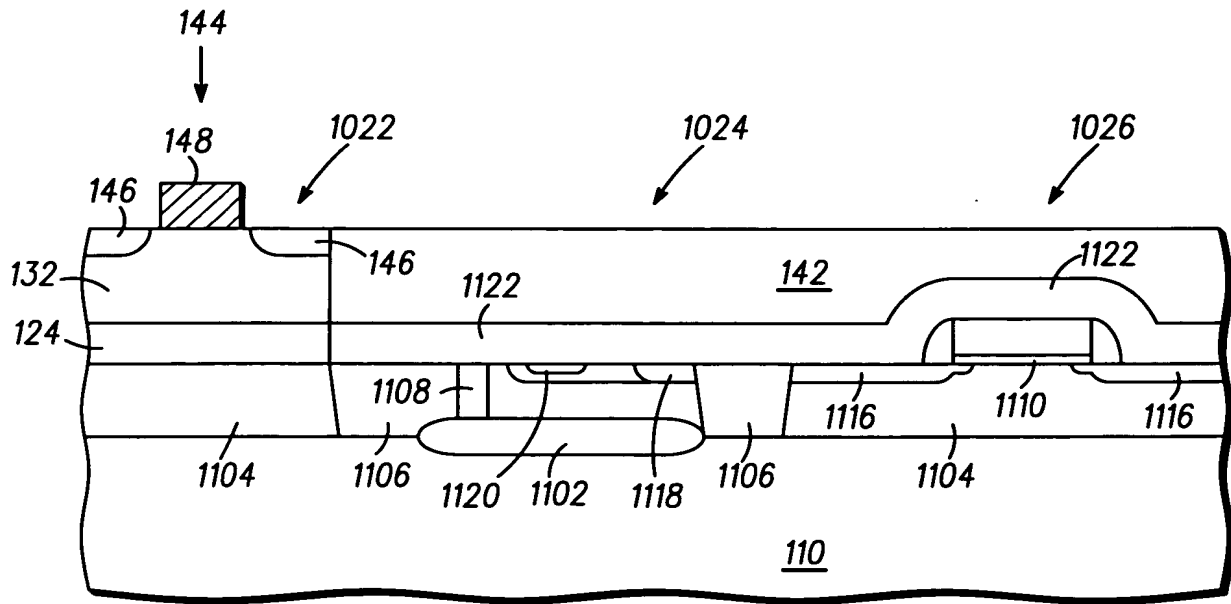
103 FIG. 27



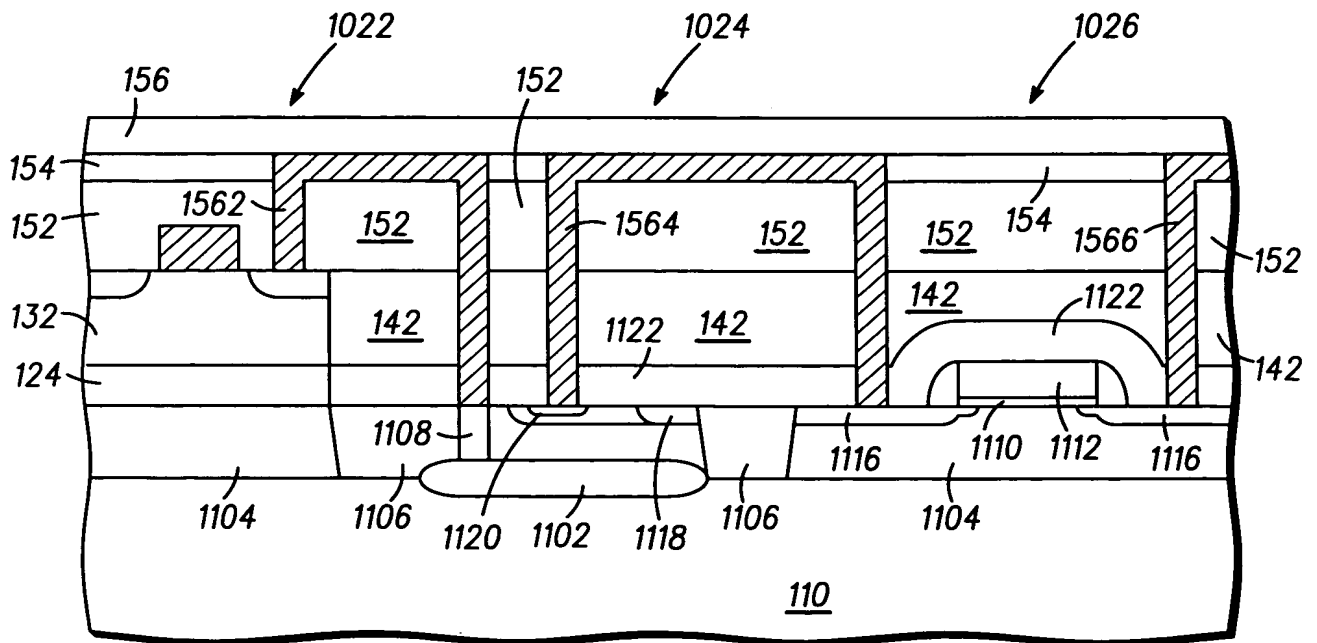
103 FIG. 28

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103 **FIG. 29**



103 **FIG. 30**

FIG. 29

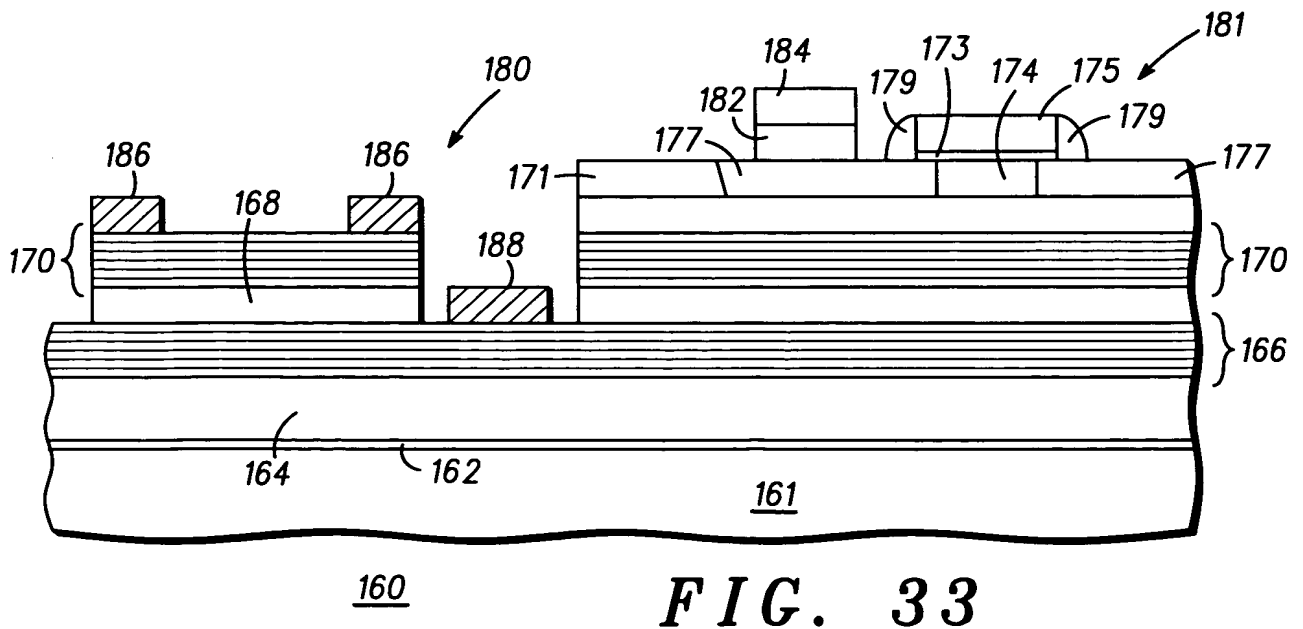
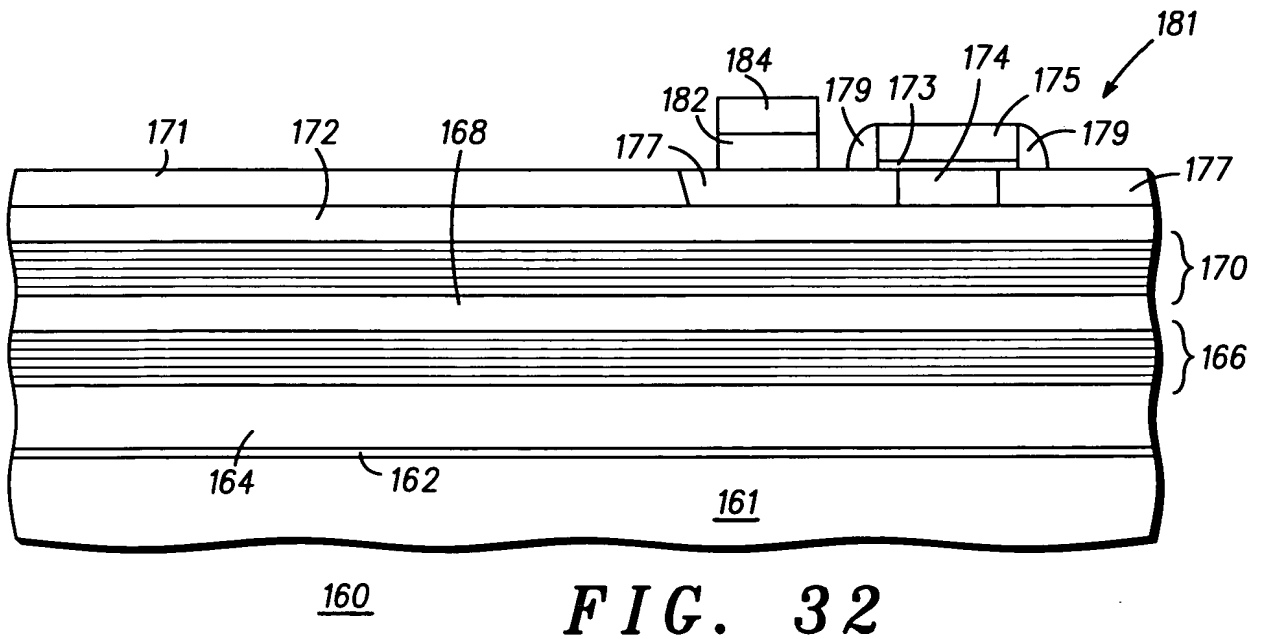
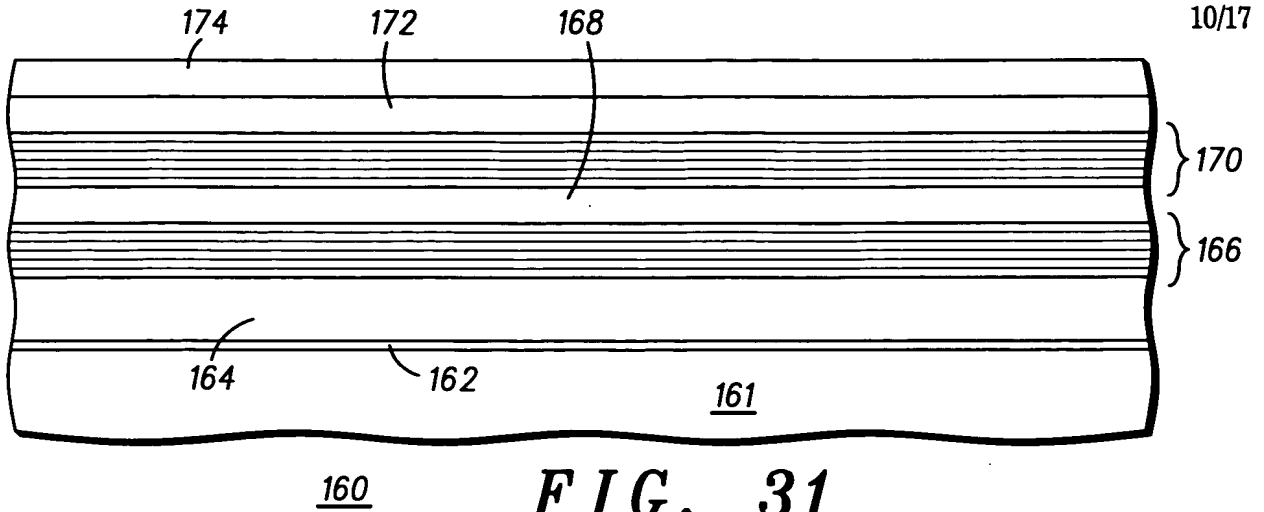


FIG. 31

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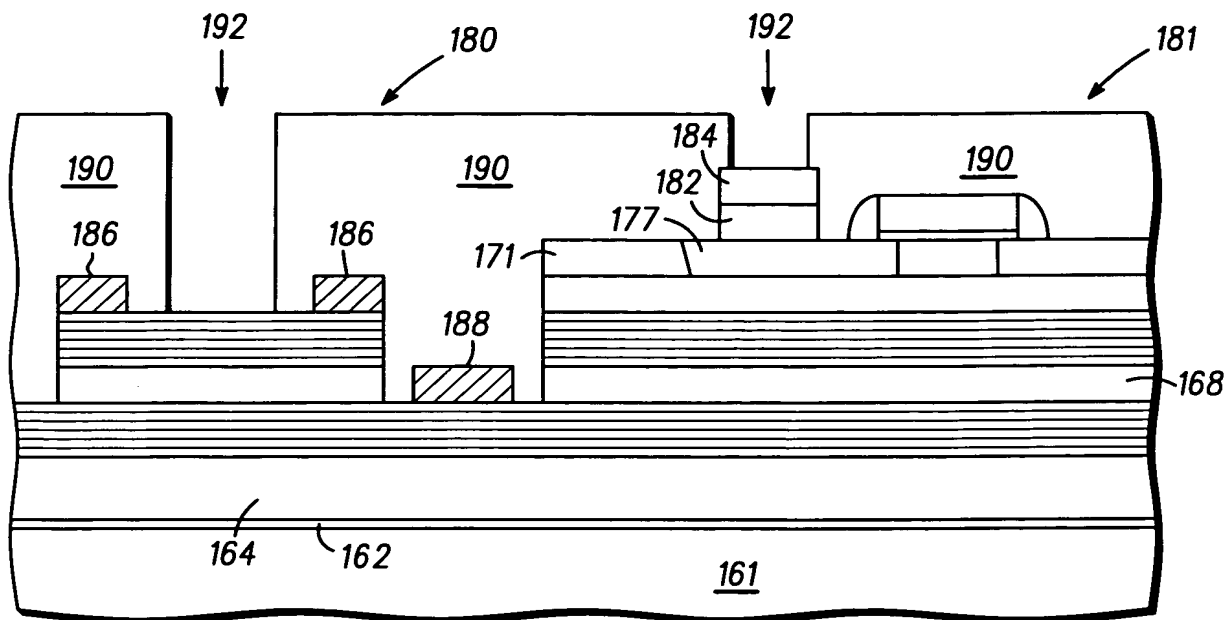


FIG. 34

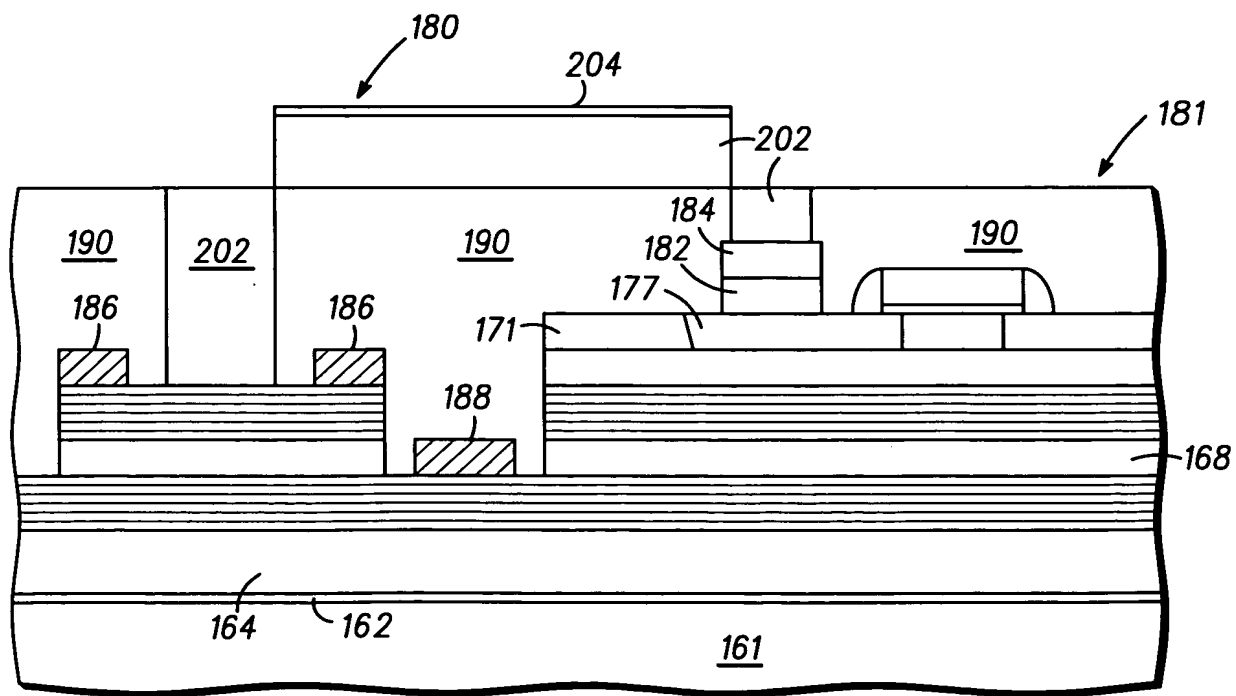
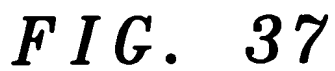
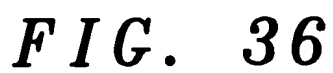


FIG. 35

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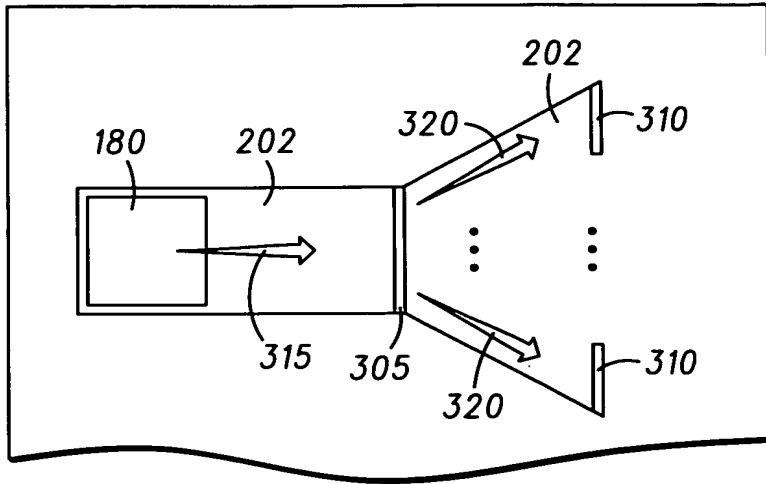


FIG. 38
300

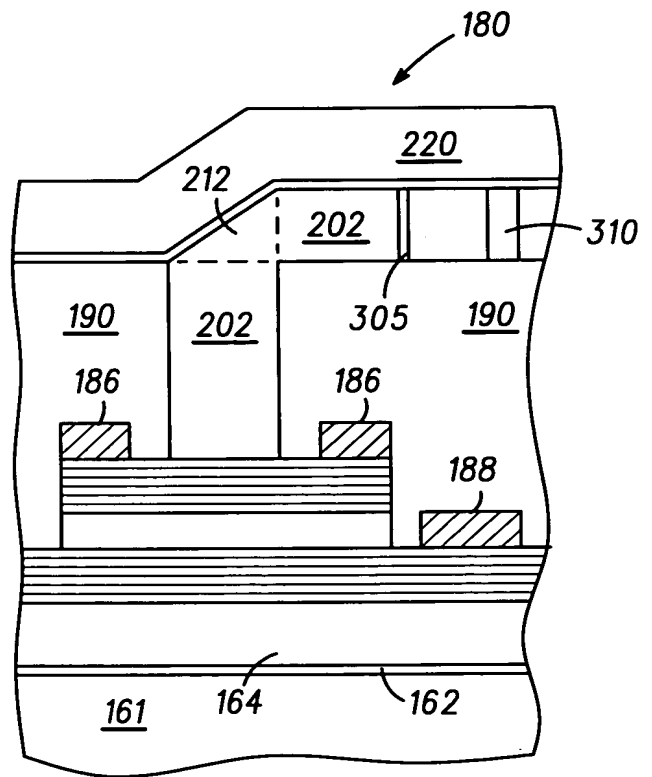
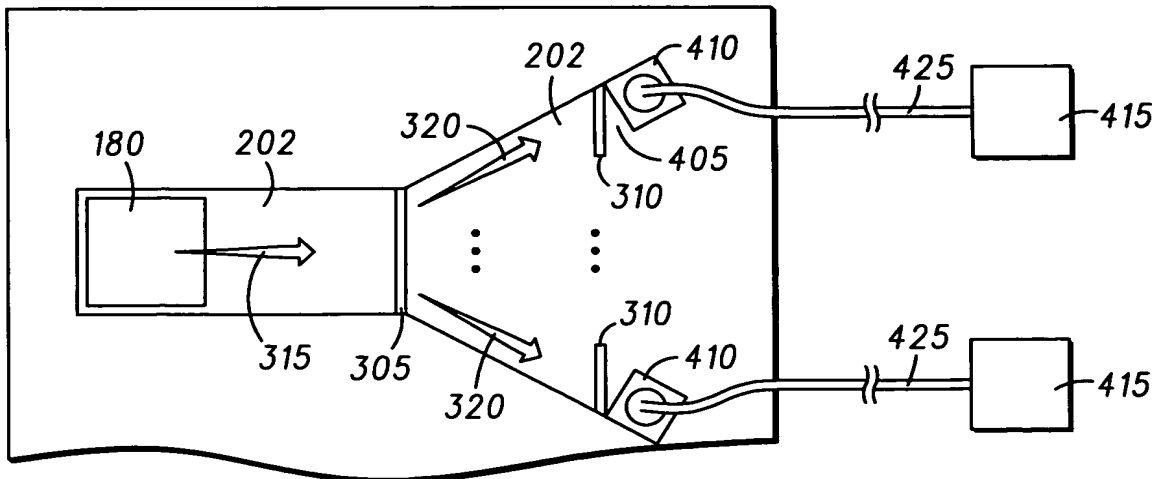
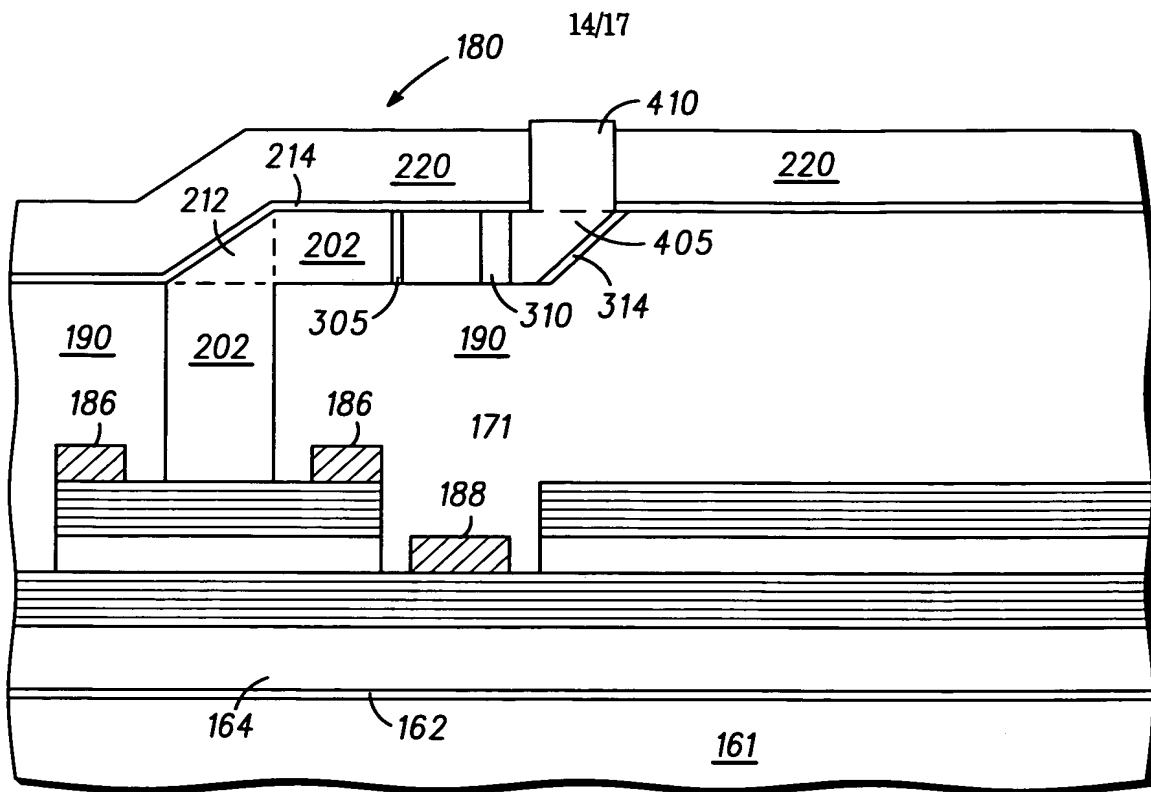


FIG. 39
300

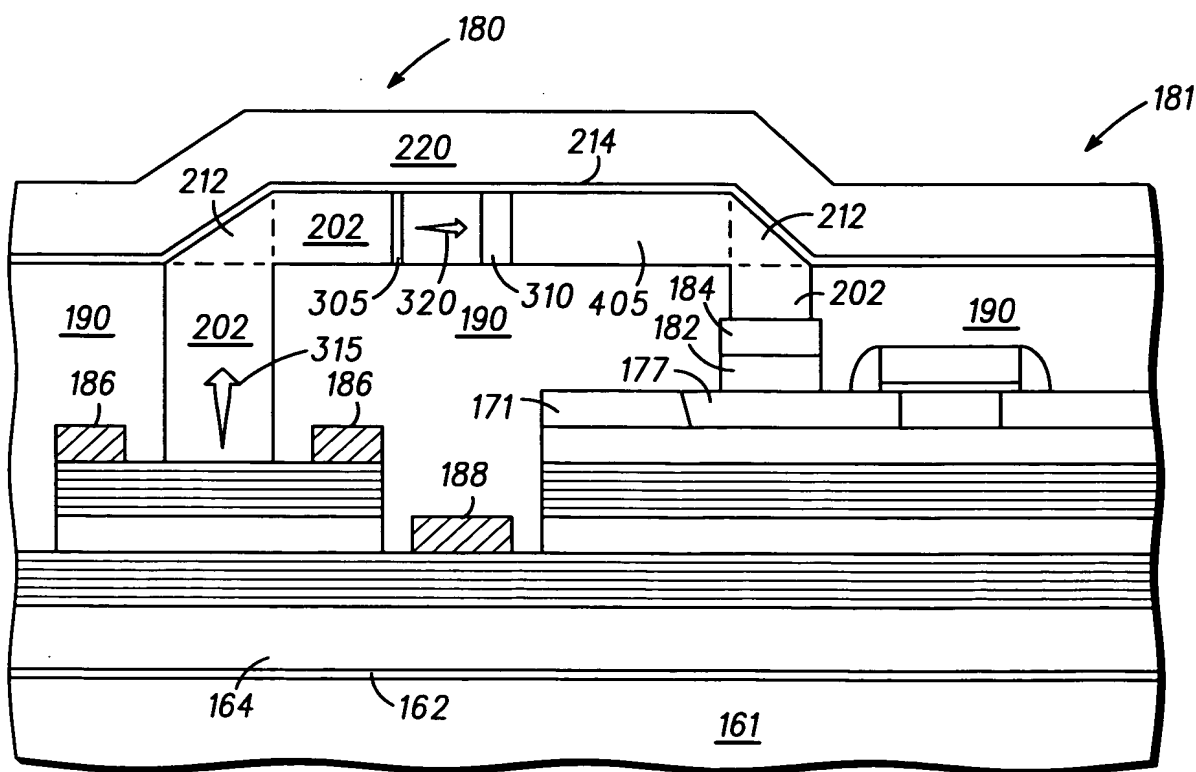
FIG. 40
400





400

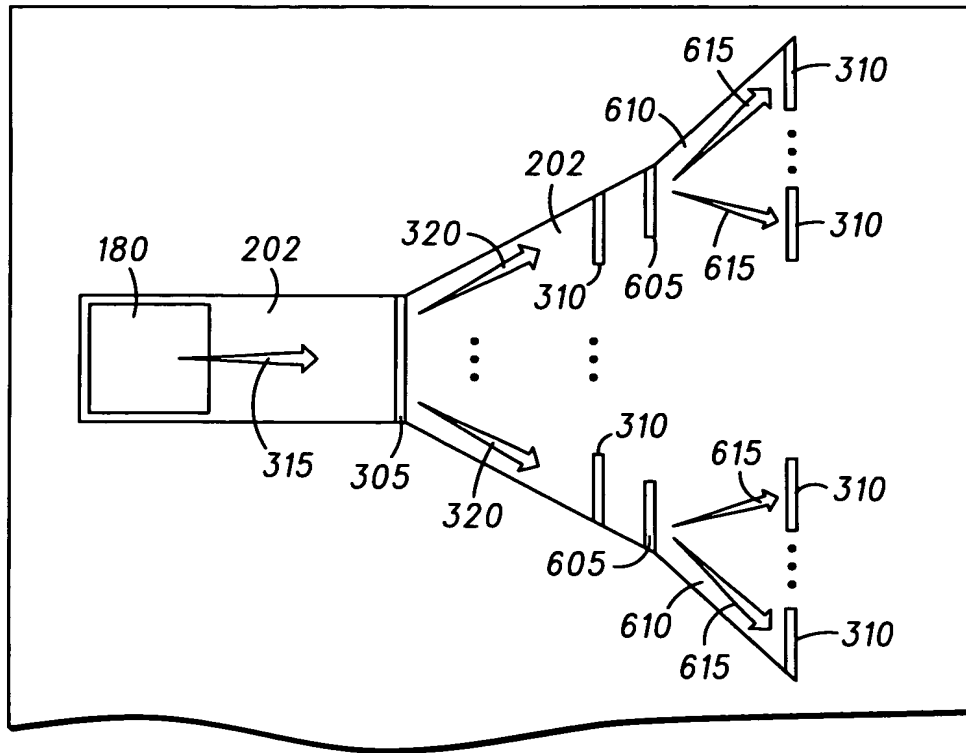
FIG. 41



500

FIG. 42

FIG. 41



600

FIG. 43

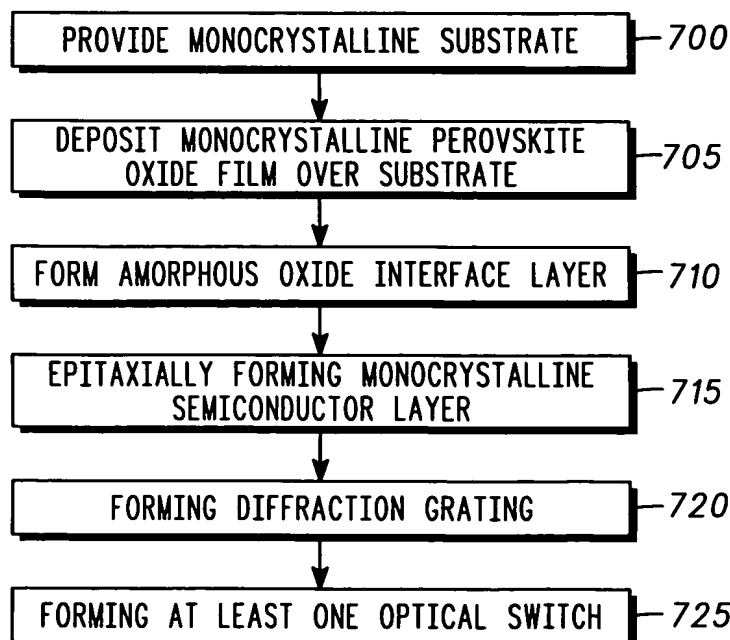


FIG. 44

| | TRANSMITTANCE FUNCTION | INTENSITY PATTERN |
|-----------------------------------|--|---|
| RECTANGULAR APERATURE | $t(x_1, y_1) = \text{RECT}(\frac{x_1}{l_x}) \text{RECT}(\frac{y_1}{l_y})$ | $I(x_0, y_0) = \frac{l_x^2 l_y^2}{2 \lambda^2 z^2} \text{SIN}^2(\frac{x_0}{\lambda z}) \text{SIN}^2(\frac{y_0}{\lambda z})$ |
| CIRCULAR APERATURE | $t(r_1) = \text{CIRC}(\frac{r_1}{l/2})$ | $I(r_0) = (\frac{kl^2}{8z})^2 [\frac{j_1(klr_0/2z)}{klr_0/2z}]^2$ |
| SINUSOIDAL AMPLITUDE GATING | $t(x, y) = [\frac{1}{2} + \frac{m}{2} \cos(2\pi f_0 x)] \text{RECT}(\frac{x}{l}) \text{RECT}(\frac{y}{l})$ | $I(x_0, y_0) = [\frac{l^2}{2 \lambda^2 z^2} \text{SIN}^2(\frac{y_0}{\lambda z}) \{ \text{SIN}^2(\frac{x_0}{\lambda z}) + \frac{m^2}{4} \text{SIN}^2[\frac{1}{\lambda z}(x_0 + f_0 \lambda z)] + \frac{m^2}{4} \text{SIN}^2[\frac{1}{\lambda z}(x_0 - f_0 \lambda z)] \}]$ |
| SINUSOIDAL PHASE GATING | $t(x_1, y_1) = \text{EXP}[j \frac{m}{2} \sin(2\pi f_0 x_1)] \text{RECT}(\frac{x_1}{l_x}) \text{RECT}(\frac{y_1}{l_y})$ | $I(x_0, y_0) = (\frac{l^2}{\lambda^2 z^2})^2 \sum_{0 \dots \alpha} J_2^2(\frac{m}{2}) \text{SIN}^2[\frac{1}{\lambda z}(x_0 - q f_0 \lambda z)] \text{SIN}^2(\frac{y_0}{\lambda z})$ |

FIG. 45

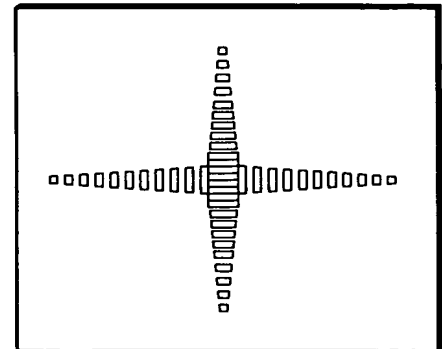


FIG. 46

NORMALIZED INTENSITY

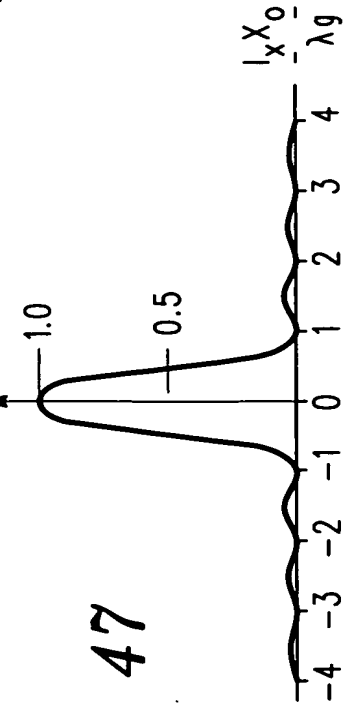


FIG. 47

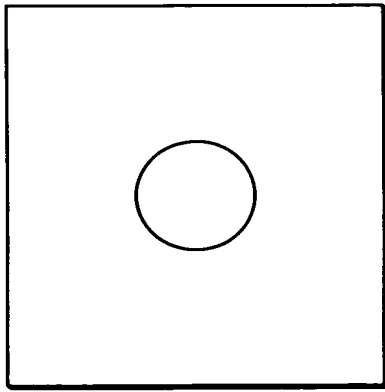


FIG. 48

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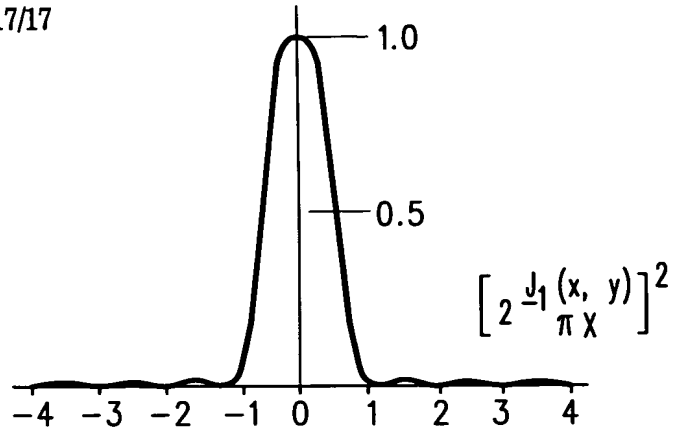


FIG. 49

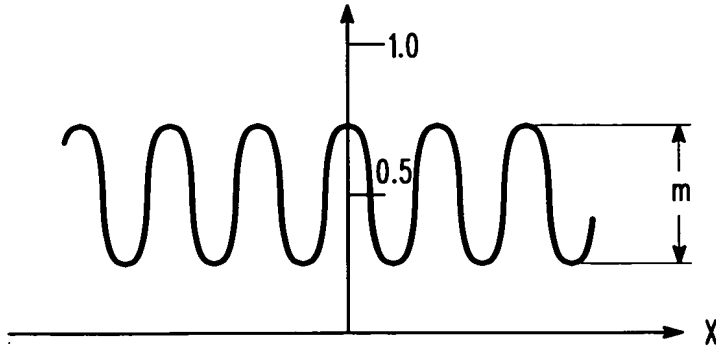


FIG. 50

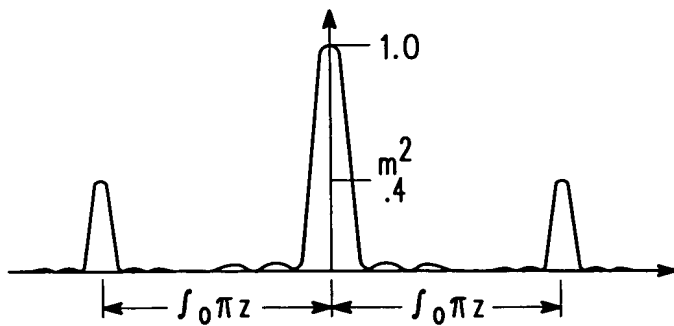


FIG. 51

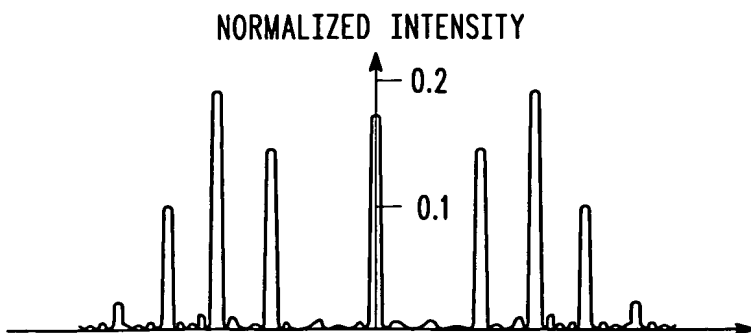


FIG. 52

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